

Fig. 1 (prior art)

200
↓

206
↓

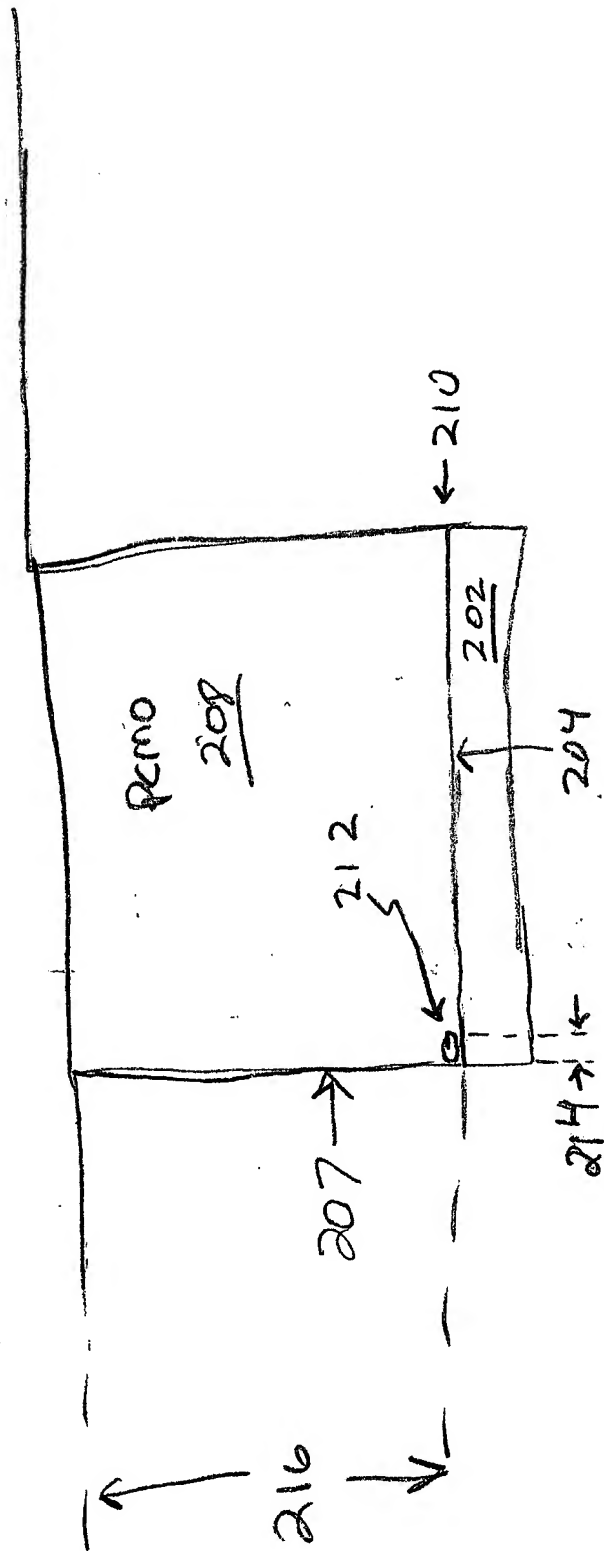
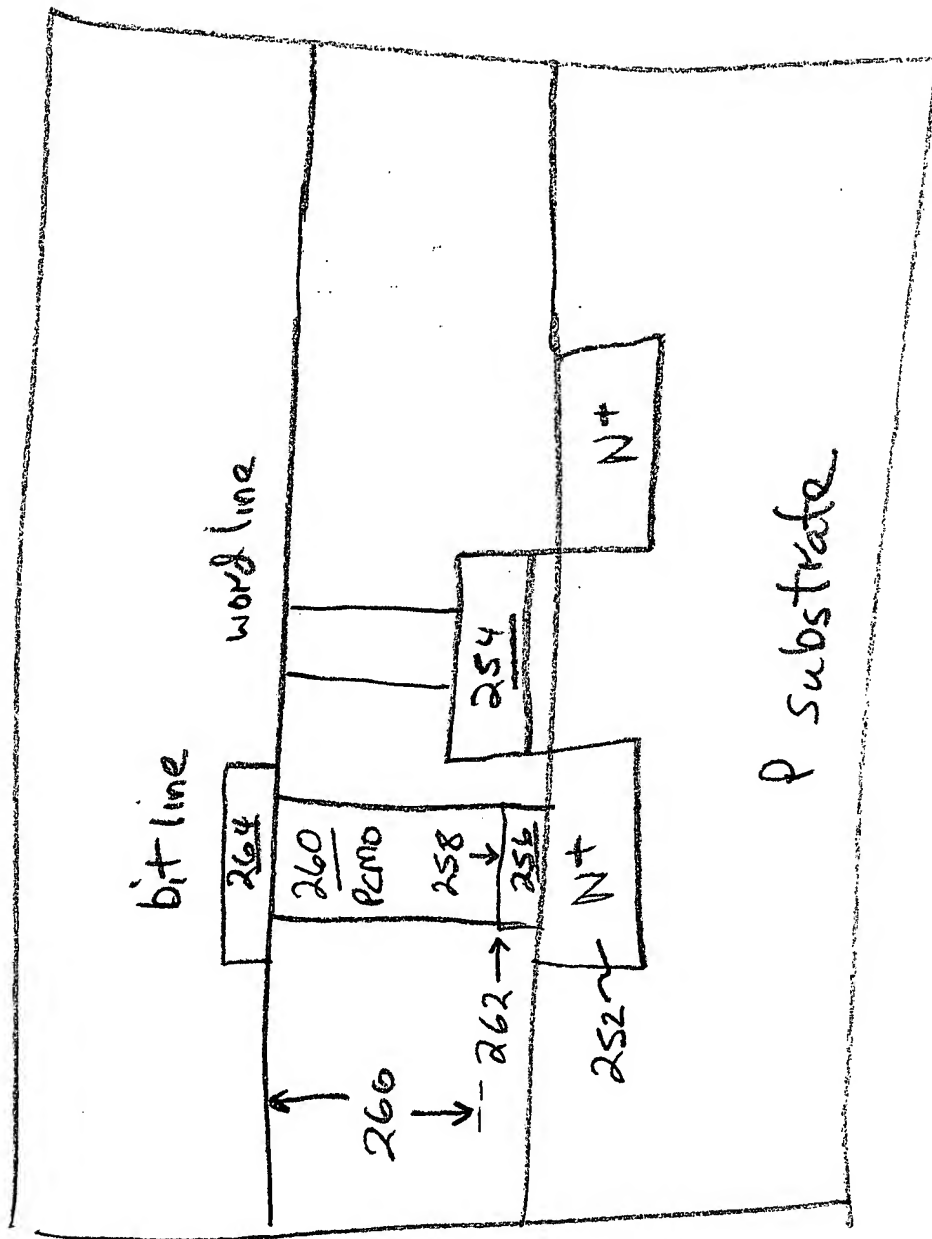


Fig. 2a

Fig. 2b

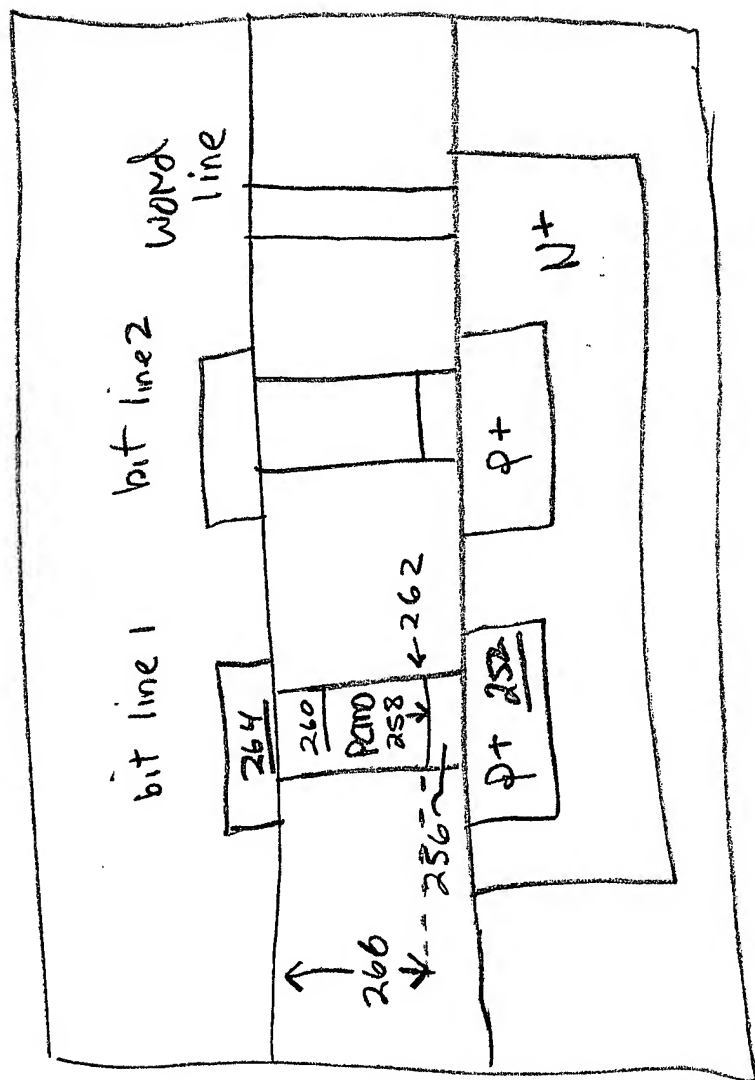
250
↓



IRIT memory array

Fig. 2c

250
↓



1R1D memory array

acetic acid injected onto water surface

↓
spin at 1500 to 3000 rpm for 30 seconds

↓
0.05M PCMO solution injected onto water surface

↓
Spin at 1500 to 3000 rpm for 30 seconds

↓
0.25M PCMO solution ←

↓
injected onto water surface
(manual or auto dispense)
spin speed : 1500 rpm

Spin. at 1500 to 3000 rpm
for 30 seconds

bake at 180°C for 1 minute

bake at 230°C for 1 minute

RTA anneal at 500°C for 5 minutes

↓
Post anneal at $500-600^{\circ}\text{C}$ for 1-6 hours
in dry clean air

2-6
cycles

Fig. 3

acetic acid injected onto wafer surface



spin at 1500 to 3000 rpm
for 30 seconds



0.05M PCMO solution injected
onto wafer surface



spin at 1500 to 3000 rpm
for 30 seconds



0.25M PCMO solution



Injected onto wafer surface
(manual or auto dispense)
spin speed: 500 rpm



spin at 1500 to 3000 rpm
for 30 seconds



baking at 180 °C for 1 minute



baking at 230 °C for 1 minute



RTA-anneal at 500 °C for 5 minute



post-anneal at 500 - 600 °C for 1 - 6 hours
in dry clean air



2-6
cycles

Fig. 4

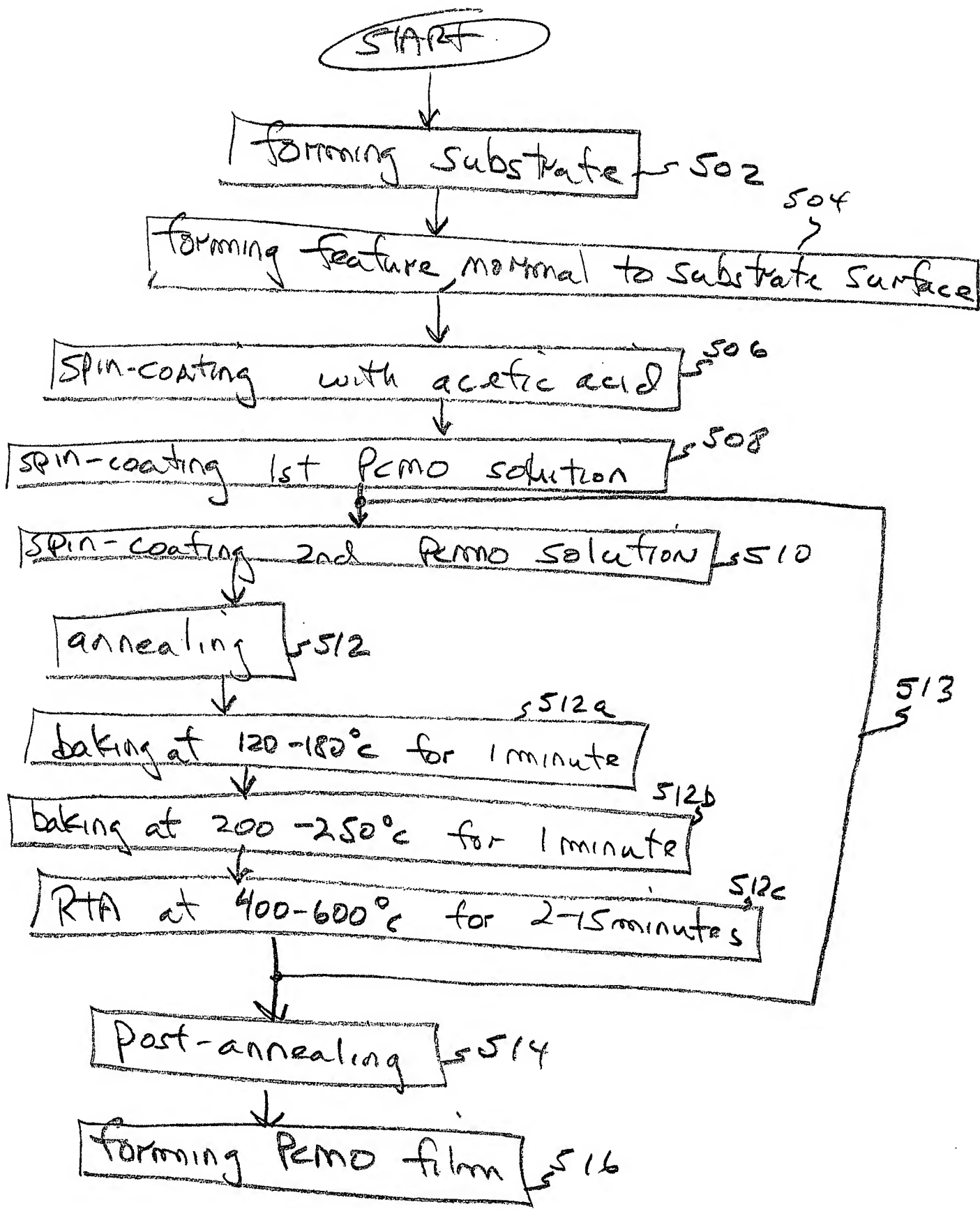


Fig. 5